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## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NUMBER 138162 SERIAL NUMBER 10/605,903 FILED 11/05/2003  
FIRST INVENTOR: Reddy et al. TITLE Cardiac Imaging System and  
Method for Quantification of Desynchrony of Ventricles for Bi-  
Ventricular Pacing EXAMINER NYA ART UNIT 2882

1. ☒ Applicant submits herewith a copy of (a) attached form PTO-1449, which lists all patents, publications, applications, or other information submitted for consideration by the Office; (b) a legible copy of each document required by 37 C.F.R. §1.98(b)(2).
2. ☐ Applicant herein apprises the Patent Office of references cited in a parent U.S. application from which this application obtains the benefit of an earlier filing date under 35 U.S.C. §120. The Serial Number of the parent application is U.S. Application \_\_\_\_\_ filed \_\_\_\_\_ and entitled \_\_\_\_\_.  
The publications cited therein are listed on attached Form PTO-1449. In accordance with 37 C.F.R. §1.98(d) copies of the listed publications are not required. ☐ Additional parent patent applications are listed on an attached sheet.
3. ☐ In accordance with 37 C.F.R. §1.98(a)(3), Applicant hereby certifies that for each reference not in English (check at least one box below):  
☐ A copy of a translation of one or more non-English document, or portion thereof, is provided herewith;  
☐ A concise explanation is (check at least one box below):  
☐ provided in the accompanying foreign or international search report; ☐ incorporated into the specification; and/or ☐ provided herewith.

### 37 C.F.R. §1.97(b)(1), (b)(2) – WITHIN 3 MONTHS OF FILING OR ENTRY IN NATIONAL STAGE

4. ☐ Since this Information Disclosure Statement is being filed within three months of the filing date of the subject application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, no fee or certification under 37 C.F.R. §1.97(e) is required.

### 37 C.F.R. §1.97(b)(3), (b)(4) – PRIOR TO MAILING OF FIRST OFFICE ACTION OR FIRST ACTION AFTER REQUEST FOR CONTINUED EXAMINATION

5. ☐ Since this Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114, no fee or certification under 37 C.F.R. §1.97(e) is required.

### 37 C.F.R. §1.97(c) – AFTER FIRST ACTION, BEFORE FINAL ACTION OR ALLOWANCE

6. ☐ Since this Information Disclosure Statement is being filed outside of the period provided for in 37 C.F.R. §1.97(b), but before the mailing date of a Final Rejection or Notice of Allowance, this submission is being accompanied by (one of the following boxes must be checked):
- a. ☐ the fee required under 37 C.F.R. §1.97(c)(2) and specified in 37 C.F.R. §1.17(p).  
b. ☐ the statement specified in 37 C.F.R. §1.97(e) (Box 8 or 9 must be checked).

### 37 C.F.R. §1.97(d) – AFTER FINAL REJECTION OR ALLOWANCE

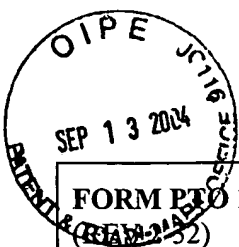
7. ☐ Since this Information Disclosure Statement is being filed after the period specified in 37 C.F.R. §1.97(c), but on or before payment of the issue fee and is accompanied by both the statement specified in 37 C.F.R. §1.97(e) and the fee set forth in 37 C.F.R. §1.17(p). (Box 8 or 9 must be checked.)
8. ☐ In accordance with 37 C.F.R. §1.97(e)(1), Applicant's attorney certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. ☐ The foreign or international search report(s) is/are enclosed.
9. ☒ In accordance with 37 C.F.R. §1.97(e)(2), Applicant's attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of the information disclosure statement.
10. ☒ In the event the Commissioner of Patents deems that any additional fee is required under 37 C.F.R. §§ 1.16 or 1.17 in connection with this application, Applicant's attorneys authorize that such fee be charged to Deposit Account No. 07-0845.
11. Consideration of this Information Disclosure Statement is respectfully requested.

Name:	<u>Sean F. Sullivan</u>	Registration Number	<u>38,328</u>
Signature		Date	<u>09/10/2004</u>

**CERTIFICATE OF MAILING OR TRANSMISSION:** I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or [ ] facsimile transmitted to the Patent and Trademark Office to Facsimile No. \_\_\_\_\_ on the date shown below.

Name	<u>Jessica L. Walsh</u>	Date	<u>09/10/2004</u>
Signature			



FORM PTO 1449  
(Rev. 2-92)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEFile No.  
138162 / GEM-0079Serial No.  
10/605,903

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant(s):  
Reddy et al.Filing Date:  
11/05/2003Group:  
2882

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1	4,574,807	03/11/1986	Hewson et al.	128	419 PG	03/02/1984
	2	5,274,551	12/28/1993	Corby, Jr.	364	413.13	11/29/1991
	3	5,304,212	04/16/1994	Czeisler et al.	607	88	01/10/1992
	4	5,348,020	09/20/1994	Huston	128	696	12/15/1992
	5	5,353,795	10/11/1994	Souza et al.	128	653.2	12/10/1992
	6	5,431,688	07/11/1995	Freeman	607	10	07/19/1993
	7	5,568,384	10/22/1996	Robb et al.	364	419.13	10/13/1992
	8	5,839,440	11/24/1998	Liou et al.	128	654	06/17/1994

## U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1	2003/0018251 A1	01/23/2003	Solomon	600	427	04/05/2002

## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

	1	H. Nikagawa et al., "Role of the Tricuspid Annulus and the Eustachian Valve/Ridge on Atrial Flutter: Relevance to Catheter Ablation of the Septal Isthmus and a New Technique for Rapid Identification of Ablation Success;" <i>Circulation</i> 1996; 94:407-24.
	2	L. Gepstein et al., "A Novel Method for Nonfluoroscopic Catheter-Based Electroanatomical Mapping of the Heart: In Vitro and In Vivo Accuracy Results;" <i>Circulation</i> 1997; 95:1611-22.
	3	S. Shpun et al., "Guidance of Radiofrequency Endocardial Ablation with Real-time Three-dimensional Magnetic Navigation System;" <i>Circulation</i> 1997; 96:2016-21.
	4	J. Sra et al., "Electroanatomic Mapping to Identify Breakthrough Sites in Recurrent Typical Human Flutter;" <i>Pacing Clin. Electrophysiol</i> 2000; 23:1479-92.

Examiner

Date considered

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	9	5,951,475	09/14/1999	Gueziec et al.	600	425	09/25/1997
	10	6,490,479 B2	12/03/2002	Bock	600	518	12/28/2000
	11	6,584,343 B1	06/24/2003	Ransbury et al.	600	509	07/06/2000

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		5	R.J. Schilling et al.; "Simultaneous Endocardial Mapping in the Human Left Ventricle Using a Noncontact Catheter: Comparison of Contact and Reconstructed Electrograms During Sinus Rhythm;" <i>Circulation</i> 1998; 98:997-98.				
		6	C. C. Gornick et al., "Validation of a New Noncontact Catheter System for Electroanatomic Mapping of Left Ventricular Endocardium;" <i>Circulation</i> 1999; 99:829-835				
		7	J. Sra et al., "Noncontact Mapping for Radiofrequency Ablation of Complex Cardiac Arrhythmias;" <i>J. Interven. Cardiac Electrophysiol</i> 2001; 5:323-331.				
		8	N. M.S. de Groot et al., "Three-Dimensional Catheter Positioning During Radiofrequency Ablation in Patients: First Application of a Real-Time Position Management System;" <i>J. Interven. Cardiac Electrophysiol</i> 2001; Nov. 11(11):1183-92				

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		9	J. Schreieck et al., "Radiofrequency Ablation of Cardiac Arrhythmias Using a Three-Dimensional Real-Time Position Management and Mapping System;" <i>Pacing Clin. Electrophysiol.</i> 2002 Dec., 25(12):1699-707.				
		10	F. Wittkamp et al., "Real-Time, Three-Dimensional, Nonfluoroscopic Localization of the Lasso Catheter;" <i>J. Interven. Cardiac Electrophysiol</i> 2002, 13:630				
		11	J. Sra et al., "Cardiac Chamber Geometry Construction, Catheter Navigation and Ablation Using Cutaneous Patches;" <i>Supplement to Circulation</i> 2003 Oct., 108 (17): IV-585, Abstract 2667.				
		12	J. Sra et al., "Three-Dimensional Right Atrial Geometry Construction and Catheter Tracking Using Cutaneous Patches;" <i>J. Interven. Cardiac Electrophysiol.</i> 2003 14:897.				

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	13	Z. Zhang; " Iterative Point Matching for Registration of Free-Form Curves;" <i>Inria</i> 1992, pages 1 - 40.
	14	C.L. Grines et al.; "Functional Abnormalities in Isolated Left Bundle Branch Block: The Effect of Interventricular Asynchrony;" <i>Circulation</i> ; 1989; 79:845-53.
	15	H. B. Xia et al., "Differing effects of right ventricular pacing and left bundle branch block on left ventricular function;" <i>Br. Heart J.</i> , 1993; 69:166-173.
	16	S. Cazeau et al., "Effects of Multisite Biventricular Pacing in Patients with Heart Failure and Intraventricular Conduction Delay;" <i>N. Engl. J. Med.</i> 2001; 344:873-880.

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		17	M. V. Pitzalis et al., "Cardiac Resynchronization Therapy Tailored by Echocardiographic Evaluation of Ventricular Acnchrony;" <i>J. Am. Coll. Cardiol.</i> 2002; 40:1615-22.				
		18	W. T. Abraham et al., "Cardiac Resynchronization in Chronic Heart Failure;" <i>N. Engl. J. Med.</i> 2002; 346:1845-1853				
		19	C. A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain;" <i>J. Comput. Assist. Tomogr.</i> 1989; 13:20-26				
		20	A.C. Evans et al., "MRI-PET Correlation in Three Dimensions Using a Volume-of-Interest (VOI) Atlas;" <i>J. Cerb Flow Metab.</i> 1991; 11:A69-A78.				
		21	R.P. Woods et al., "Rapid Automated Algorithm for Aligning and Reslicing PET Images;" <i>Journal of Computer Assisted Tomography</i> , 1992; 16:620-633				

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	22	B.A. Ardekani et al.; "A Fully Automatic Multimodality Image Registration Algorithm;" <i>Journal of Computer Assisted Tomography</i> ; 1995; 19:615-623.
	23	L. Thurfell et al.; "Registration of Neuroimaging Data: Implementation and Clinical Applications;" <i>American Society of Neuroimaging</i> ;" 2000; 10:39-46
	24	S. A. Ben-Haim et al.; "Nonfluoroscopic, in vivo navigation and mapping technology;" <i>Nature Medicine</i> ; 1996, 2:1393-5.
	25	B. Taccardi et al.; "A new intracavitary probe for detecting the site of origin of ectopic ventricular beats during one cardiac cycle;" <i>Circulation</i> ; 1987; 75:272-81
	26	F. H.M. Wittkamp et al.; "New Technique for Real-Time 3-Dimensional Localization of Regular Intracardiac Electrodes;" <i>Circulation</i> ; 1999; 99:1312-17.
	27	V. Fuster et al. "ACC/AHA/NASPE 2002 Guidelines Update for Implantation of Pacemakers and Antiarrhythmia Devices;" <i>J. Am. Coll. Cardiol</i> 2001; 38:1-47.
	28	D. R. Ney "Volumetric Rendering of Computed Tomography Data: Principles and Techniques;" <i>IEEE Computer Graphics and Applications</i> ; 1990; 24-32

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		29	N. M. Alpert et al., "The Principal Axes Transformation - A Method for Image Registration," <i>The Journal of Nuclear Medicine</i> ; 1990; 31:1717-1722.				
		30	P.A. van den Elsen et al.; "Medical Image Matching - A Review with Classification;" <i>IEEE Engineering in Medicine and Biology</i> , 1993; 26 - 38.				
		31	G. T. Barnes et al.; "Conventional and Spiral Computed Tomography: Physical Principles and Image Quality Considerations;" <i>Computed Body Tomography</i> , 1998, Lippincot-Raven, Philadelphia, PA pp 1 - 20.				
		32	Milan Sonka and J. Michael Fitzpatrick (eds); <i>Handbook of Medical Imaging Vol. 2. Medical Image Processing and Analysis</i> ; pp 129-174 & 447-506				
		33	W. M. Feinberg et al.; "Prevalence, Age Distribution, and Gender of Patients with Atrial Fibrillation;" <i>Arch. Intern. Med. Vol. 155</i> ; March 1995; pages 469-473				
		34	*J. L. Cox, J. P. Boineau, R. B. Schuessler, T. B. Ferguson, Jr., M. E. Cain, B. D. Lindsay, P. B. Corr, K. M. Kater, D. G. Lappas; "Operations for Atrial Fibrillation;" <i>Electrophysiology, Pacing and Arrhythmia, Clin. Cardiol.</i> 14, 1991; pages 827-834				

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		35	*M. Haissaguerre, P. Jais, S. C. Shah, A. Takahashi, M. Hocini, G. Quiniou, S. Garrigue, A. Le Mouroux, P. Le Metayer, and J. Clementy; "Spontaneous Initiation of Atrial Fibrillation by Ectopic Beats Originating in the Pulmonary Veins;" The New England Journal of Medicine, Vol 339, No. 10, September 3, 1998; pp 659-668.				
		36	*C. Pappone, S. Rosanio, G. Augello, G. Gallus, G. Vicedomini, P. Mazzone, S. Gulletta, F. Gugliotta, A. Pappone, V. Santinelli, V. Tortoriello, S. Sala, A. Zangrillo, G. Crescenzi, S. Benussi, and O. Alfieri; "Mortality, Morbidity, and Quality of Life After Circumferential Pulmonary Vein Ablation for Atrial Fibrillation;" Journal of the American College of Cardiology, Vol. 42, No. 2; 2003; 185 - 197.				
		37	*J. Sra et al., "Current Problems in Cardiology- Atrial Fibrillation: Epidemiology, Mechanisms, and Management;" Current Problems in Cardiology, July 2000; pages 406 - 524				

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	38	*ACC/AHA/ESC Practise Guidelines; Eur. Heart J., Vol. 22, issue 20, October 2001; pages 1854 - 1923
	39	*M. D. Leash, T. Trepelse, H. Omran, A. Bartorelli, P. Della Bella, T. Nakai, M. Reisman, D. fleschenberb, U. Krumdsdorf, and D. Scherer; "Tiny Device Blocks 'Usless' Part of Heart, prevents blood clots;" Journal Report; American Heart Association; April 9, 2002
	40	*Ellen Barlow; "Operating in 3-D" found at <a href="http://www.med.harvard.edu/publications/HMAB/196fo3d.html">www.med.harvard.edu/publications/HMAB/196fo3d.html</a>

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